

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A reflow device comprising: ~~including a heater to~~
heat
a carried member that is intermittently carried; ~~comprising:~~
a heating unit including:
a heater for heating said carried member;
a belt on at least one roller with part of the belt in contact with the carried
member; and
an elasticity mechanism for controlling a proximity of the heater to the part
of the belt in contact with the carried member;
a driving mechanism to drive the heating unit ~~heater~~ back and forth along a
carrying direction of the carried member; and
a driving ~~control means~~ controller to control the driving of the driving mechanism,
the driving of the at least one roller, and a position of the elasticity mechanism based on
a carry velocity of the carried member;
wherein the driving ~~control means~~ controller maintains a constant relative velocity
between the carried member and the ~~heater~~ heating unit and a zero relative velocity
between the carried member and the part of the belt in contact with the carried member.

2. (currently amended) The reflow device according to Claim 1, wherein the driving ~~control means~~ controller controls the driving of the driving mechanism so that the ~~heater~~ heating unit moves in the carrying direction at a carry time movement velocity that is slower than a carry velocity of the carried member if the carried member is in a carried state, and the ~~heater~~ heating unit moves in an opposite carrying direction at a carry standby time movement velocity derived from a difference between the carry velocity and the carry time movement velocity if the carried member is in a carry standby state.

3. (currently amended) The reflow device according to Claim 2, wherein the driving ~~control means~~ controller controls the driving of the driving mechanism so that the ~~heater~~ heating unit moves in the opposite carrying direction at the carry standby time movement velocity if the carrying of the carried member stops abnormally.

4. (currently amended) The reflow device according to Claim 1, wherein the driving ~~control means~~ controller controls the driving of the driving mechanism so that the ~~heater~~ heating unit reciprocates in a steady section between a carry starting position and a carry standby starting position if the intermittent carrying of the carried member is in a steady state.

5. (currently amended) The reflow device according to Claim 4, wherein the driving mechanism comprises an unsteady section beyond the carry starting position from the steady section to which the ~~heater~~ heating unit moves.

6. (currently amended) The reflow device according to Claim 1, ~~further comprising: a heater evacuation means for evacuating~~ wherein the elasticity mechanism evacuates the heater from the part of the belt in contact with the carried member if the carrying of the carried member stops abnormally and the driving of the ~~heater~~ heating unit by the driving mechanism to keep the relative velocity to the carried member constant becomes impossible.